

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	8791	DLC or ((diamondlike or (diamond adj like)) adj carbon) or diamondlikecarbon	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:22
2	L2	1795	"a-C:H" or "aC:H" aCH.m/c.	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:25
3	L3	23699 2	(H.u/c. or hydrogen or hydrogenat\$4) near2 (C.u/c. or carbon)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:33
4	L4	1238	3 near2 (".alpha." or amorphous)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:34

SN 10/019, 852

2

	L #	Hits	Search Text	DBs	Time Stamp
5	L5	11200	1 or 2 or 4	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:35
6	L6	2597	5 same (thick thickness ".ang." angstrom)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:36
7	L7	684	5 same (density "g/cm.sup.3" "g.multidot.cm.sup.-3 ")	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:39
8	L8	0	5 same ((H.u/c. hydrogen) near2 (percent ".percent.")) <i>Spelling!!</i>	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:53

hits
37

L16 fix spell percent

3

	L #	Hits	Search Text	DBs	Time Stamp
9	L9	0	5 same ((H.u/c. hydrogen) near5 (precent ".precent."))	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:44
10	L10	2642	5 same (H.u/c. hydrogen hydrogenat\$4)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:45
11	L11	248	6 and 7 and 10 .	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:45
12	L12	227	11 and plasma	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/2 5 11:45

	L #	Hits	Search Text	DBs	Time Stamp
13	L13	167	5 same (bottle container)	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/25 11:47
14	L14	19	12 and 13	USPA T; US-P GPUB ; EPO; JPO; DERW ENT; IBM TDB	2003/09/25 11:47

14-15
18-19

L15 - PN 4,809876 - Tomas Wichelid

coat food container w/ DLC

col 4, 125-30 p ~ 1.7 - 1.8 g/cm³

d 1-6 thick ~ 1000 Å puf

d 12-17 puf. 20-40% at H

w/ spells fixed

8 so L16 5 sam ⇒ 37 hits

(L17) 6 p 7 e 16 ⇒ 31 hits

(L18) 17 not 14 ⇒ 28 hits

(L19) 18 and 13 ⇒ ②

(L20) 18 + plasma ⇒ (26)

(L21) 18 e plastic = 14

(L22) 20 or 21 ⇒ 26

L23 20 and 21 ⇒ 14

214

	Document ID	Issue Date	Title	Current OR	Inventor
1	US 2003012 4449 A1	20030703 f.d. 4/27/02	Process and apparatus for manufacturing electro photographic photosensitive member	430/128	Okamura, Ryuji et al.
2	US 2003012 4229 A1 NPA	20030703	Plastic container for dry solid food	426/106	Hama, Kenichi et al.
3	US 2001001 8127 A1 ✓ cont. 4/24/97 08/178,716	20010830 f.d. 3/16/01	Diamond-like carbon coating s on inorganic phosphors	428/404	David, Moses M. et al.
4	US 6589619 B1 ✓ 4/10/97 2/2/98 - PET pub	20030708 371	Recycling method.	428/36.6	Nagashima, Kazufumi
5	US 6548172 B2	20030415	Diamond-like carbon coatings on inorganic phosphors	428/403	David, Moses M. et al.

Fig. 1, front pull

pull wrong & sub!

pull cate

similar to #10

3 =

[0015] DLC = α -C w/ 110-50 at. % H, $\rho = 1.2 - 2.84 \text{ g/cm}^3$
 [0026] thick DLC = $10 - 10^4 \text{ \AA}$
 [0030] 0.28 g/cm^3 atomic wt, in gms

$\approx 50 \text{ nm} \rightarrow 5 \mu$
 500 \AA
 cl. 0

✓ $\rho \geq 2.00 \text{ g/cm}^3$ ① $\rho \leq 2.84 \text{ g/cm}^3$

2

	Document ID	Issue Date	Title	Current OR	Inventor
6	US 6265068 B1	20010724	Diamond-like carbon coating on inorganic phosphors	428/403	David, Moses M. et al.
7	(B10) the term "D-L-C" - plate 4,809,876 - plate US 6071597 A (D5) Prof. symposiums DLC 500 - 5000 Å	20000606	Flexible circuit s and carrier s and process for manufacture	428/209	Yang, Rui et al.
8	(D3) Fig. 1 ... DLC Resin US 5853833 A (D43) Very thin - the thinner the better - 2500 Å	19981229	Sanitary container and product ion process thereof	428/36.6	Sudo, Morihir o et al.
9	US 5844225 A	19981201 Good	Abrasio n wear resista nt coated substra te product	235/462.01	Kimock, Fred M. et al.

Pull []

(P11) Fuller dep. of 45° only ... DLC layer $\geq 50 \text{ Å}$

(P13) It has many problems

X(P39) plasma beam density

(P110) Specific exp. ... the data note 2 w/ the DLC ... can't bottles
SiO₂/N₂ then DLC

have

9 //

9 //

	Document ID	Issue Date	Title	Current OR	Inventor
10	US 5798139 A	19980825	Apparatus for and method of manufacturing plastic container coated with carbon film	427/237	Nagashima, Kazufumi et al.
11	US 5643423 A	19970701	Method for producing an abrasion resistant coated substrate product	204/192.35	Kimock, Fred M. et al.
12	US 5637353 A	19970610	Abrasion wear resistant coated substrate product	427/255.34	Kimock, Fred M. et al.

4

9=

	Document ID	Issue Date	Title	Current OR	Inventor
13	US 5635245 A	19970603	Process of making abrasion wear resistant coated substrate product	427/249.7	Kimock, Fred M. et al.
14	US 5562781 A	19961008	Amorphous, hydrogenated carbon (a-C:H) photo voltaic cell	136/249	Ingram, David C. et al.
15	US 5527596 A	19960618	Abrasion wear resistant coated substrate product	428/216	Kimock, Fred M. et al.
16	US 5508092 A	19960416	Abrasion wear resistant coated substrate product	428/216	Kimock, Fred M. et al.
17	US 5506038 A	19960409	Abrasion wear resistant coated substrate product	428/216	Knapp, Bradley J. et al.

wrong sub
act, has no No

(p24) Amorphous hydrogen C...
thick 100-5000A

9-

5

9 =

	Document ID	Issue Date	Title	Current OR	Inventor
18	US 5268217 A	19931207	Abrasion wear resistant coated substrate product	428/216	Kimock, Fred M. et al.
19	US 5162875 A	19921110	Protective layer for electroactive passivation layers	257/636	Birkle, Siegfried et al.

Full
~~#14~~
 with sub
 - semi cond.

Abs - thin α -C:H
 (B9) Accord... α -C:H
 (B10) Amorphous. (a-C:H) = DLC H 10-40% at
 (B11) Acc... thickness: 0.05 ~ 3 μ m
 : 100
 X (D7) In the case power density,